

AFCTN Test Report 93-066

AFCTB-ID 93-026



Technical Publication Transfer



Using:

Northrop Corporation's Data



MIL-D-28000A (IGES)

MIL-M-28001A (SGML)

MIL-R-28002A (Raster)

MIL-D-28003 (CGM)

Quick Short Test Report

26 March 1993



Prepared for

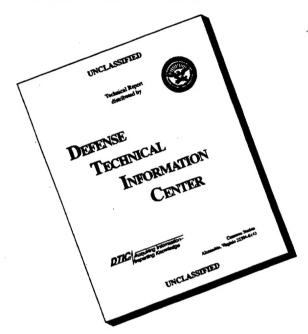
Electronic Systems Center

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> MIL-D-28000A (IGES) MIL-M-28001A (SGML) MIL-R-28002A (Raster) MIL-D-28003 (CGM)

> **Quick Short Test Report** 26 March 1993

Prepared By Air Force CALS Test Bed Wright-Patterson AFB, OH 45433

AFCTB Contact

Gary Lammers $(51\overline{3})$ 427-2295

AFCTN Contact

Mel Lammers (513) 427-2295

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1. Introduction

1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-Cycle Support (CALS) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALS standards for technical data interchange, and demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal test are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and to respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develope increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

1.2 Purpose

The purpose of the informal test, reported in this QSTR, was to analyze Northrop Corporation's interpretation and use of the CALS standards in transferring technical publications data. Northrop used its CALS Technical Data Interchange System to produce data, in accordance with the standards, and delivered it to the AFCTN technical staff on a 9-track magnetic tape.

2. Test Parameters

Test Plan:

AFCTB 93-026

Date of

Evaluation:

26 March 1993

Evaluators:

George Elwood

Air Force CALS Test Bed

Det 2 HQ ESC/ENCP 4027 Colonel Glenn Hwy

Suite 300

Dayton OH 45431-1672

Data

Originator:

John Kent

Northrop Corporation B-2 Division M/S L591/GK 8900 East Washington Blvd Pico Rivera CA 90660

(310) 948-0624

Data

Description:

Technical Manual Test

3 Document Declaration files

3 Document Type Definitions (DTDs)

4 Initial Graphics Exchange Specification

(IGES) files

3 Text files
2 Raster files

6 Computer Graphics Metafile (CGM) files

Data

Source System:

IGES

HARDWARE

Unknown

SOFTWARE

Unknown

Text/Standard Generalized Markup Language (SGML)

HARDWARE

Unknown

SOFTWARE

Unknown

Raster

HARDWARE

Unknown

SOFTWARE

Unknown

CGM

HARDWARE

Unknown

SOFTWARE

Unknown

Evaluation Tools Used:

MIL-STD-1840A (TAPE)

SUN 3/280

AFCTN Tapetool v1.2.8 UNIX

MIL-D-28000 (IGES)

Sun SparcStation 2

ArborText iges2draw IGES Data Analysis

(IDA) Parser/Verifier v92

IDA IGESView v3.05

MIL-M-28001 (SGML)

Cheetah Gold 486

Datalogics ParserStation v3.36 Exoterica XGMLNormalizer v1.2e3.2 McAfee & McAdam Sema Mark-it v2.3

MIL-R-28002 (Raster)

SUN SparcStation 2

ArborText g42tiff
AFCTN validg4
AFCTN calstb.475
IDA IGESView v3.0
Island Graphics IslandPaint v3.0

MIL-D-28003 (CGM)

SUN SparcStation 2

ArborText cgm2draw

Island Graphics IslandDraw v3.0

Cheetah Gold 486

Advance Technology Center

(ATC) MetaView R 1.12

ATC MetaCheck R 2.05

Software Publishing Corporation

(SPC) Harvard Graphics v3.05

Inset Systems HiJaak v1.0 Windows

Micrografx Designer v3.1

Standards

Tested:

MIL-STD-1840A MIL-D-28000A MIL-M-28001A MIL-R-28002A MIL-D-28003

3. 1840A Analysis

3.1 External Packaging

The tape arrived at the Air Force CALS Test Bed (AFCTB) enclosed in a box in accordance with ASTM D 3951. The exterior of the box was not marked with the magnetic tape warning label, as required by MIL-STD-1840A, para. 5.3.1.3. When the commercial packing slip was removed, the magnetic warning was found.

The tape was enclosed in a barrier bag as required by MIL-STD-1840A, para. 5.3.1.2. Inspection of the tape reel showed the label indicating the recording density, as required by MIL-STD-1840A, para. 5.3.1. Enclosed in the box was a packing list showing all files recorded on the tape.

3.2 Transmission Envelope

The 9-track tape received by the AFCTB contained MIL-STD-1840A files. The files were named per the standard conventions.

3.2.1 Tape Formats

The tape was run through the AFCTN Tapetool v1.2.8 utility. No errors were encountered while evaluating the contents of the tape labels.

The tape was run through TI's version of Tapetool with no reported errors.

The tape was read using XSoft's CAPS read1840A without a reported error.

3.2.2 Declaration and Header Fields

No error was reported in the Document Declaration file or data file headers.

This portion of the tape meets the CALS MIL-STD-1840A requirements.

4. IGES Analysis

The tape contained four IGES files. These files were evaluated using IDA's Parser/Verifier for CALS Class I. This utility reported that these files meet the CALS MIL-D-28000A specification. A few basic IGES errors were note. The logs for this procedure is located in the Appendix to this report.

The AFCTB has several tools for viewing IGES files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. Many of these products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings.

The files were converted using ArborText's iges2draw utility. All files converted without a reported error. When the resulting files were read into Island Graphics' Island Draw, file D002Q004 and Q005 did not display correctly. These images were off screen to the left. The remaining files were handled without a problem.

The files were read into IDA's *IGESView* without a reported problem. All files displayed and printed without a noted problem.

The files were read into ITI's *IGESWorks* without a reported problem. All files displayed and printed without a noted error.

The IGES files meet the CALS MIL-D-28000A, Class I specification.

5. SGML Analysis

The tape contained three DTDs and three Text files. The DTD's were noted as being the same with the exception of graphic calls. All of the graphic references were inserted into one file which was used for all operations. For error logs see QSTR 93-025.

The AFCTB has several parser available for evaluating submitted DTD and TEXT files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. These products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings unless specified in the report. Changes to DTD or Text files required by each system are not documented in the report.

The Text and DTD files from the tape were evaluated using Datalogics' ParseStation. They had reported warnings.

The Text and DTD files from this document were tested using the Exoterica XGMLNormalizer parser. No errors were reported by this program.

The Text and DTD files from these documents were evaluated using a new parser from Exoterica. This program reported several warnings. These were the same entities reported by Datalogics parser.

The Text and DTD files from the tape were evaluated using McAfee & McAdam' Sema Mark-it parser. No errors were reported by this program.

The Text and DTD files from the tape were evaluated using the Public Domain sgmls parser. No errors were reported from this program.

The files meet the CALS MIL-M-28001A specification.

6. Raster Analysis

The tape contained one type I and one type II Raster files. The AFCTB currently has no capability to read type II files. This file was sent to the AFCTN Raster expert for evaluation.

The type I Raster file was evaluated using the AFCTN validg4 utility which reported the file as valid. The file was read into the AFCTN calstb.475 viewer with no problems.

The AFCTB has several tools for viewing Raster files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. Many of these products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings.

The file was read into IDA's *IGESView* with no reported errors. The file was displayed and printed.

The file was read into Inset Systems HiJaak for Windows without a reported error.

The type I Raster file meets the CALS MIL-R-28002A specification.

7. CGM Analysis

This tape contained six CGM files. The files were evaluated at the AFCTB and by the AFCTN CGM expert at LLNL. Three of the files (10006, 10007, 10008) were evaluated in QSTR 93-025 and are not addressed here.

The files were evaluated using ATC's *MetaCheck* with CALS options. This utility reported that the files meet the CALS MIL-D-28003 specification.

The files were evaluated using the AFCTN beta validcgm utility. This program reported some errors in all files.

The AFCTB has several tools for viewing CGM files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. Many of these products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor and indication of CALS capability. All operations were performed using the default settings.

The files were viewed on screen using ATC's MetaView. The version available in the AFCTB is not the most current and had problems displaying the font correctly. Errors were generated by the two files which had text in them.

The files were converted using ArborText's cgm2draw utility with no reported errors. The resulting files were read into Island Graphics' IslandDraw, displayed and printed. With the exception of some font problems and an extra line in files C104 and C105, the images appeared to be complete. The ArborText utility strips the color from the files, so the images display in black and white.

The files were imported directly into Island Graphics' IslandDraw with no reported errors. Problems were noted with font and some lines in file C104. File C105 had sever problems with all text and graphics being placed in the lower left corner. The images displayed in color.

When the files were read using Inset Systems' HiJaak for Windows, only C104 could be read. The remaining files caused a general protection error.

When the Micrografx Designer was used to import the files, nothing was displayed.

The files were reported as meeting the CALS MTL-D-28003 specification.

8. Conclusions and Recommendations

In summary, the MIL-STD-1840A tape from Northrop Corporation was correct. No errors were reported in tape or CALS headers.

The IGES files meet the CALS MIL-D-28000A specification.

The SGML files and DTD meet the CALS MIL-M-28001A specification.

The Type I Raster file meets the CALS MIL-R-28002A specification.

The Type II Raster file was not evaluated.

The CGM files meet the CALS MIL-D-28003 specification.

The tape and the files evaluated meet the CALS MIL-STD-1840A requirements.

9. Appendix A - Tapetool Report Logs

9.1 Tape Catalog

Air Force CALS Test Network Catalog Evaluation - Version 1.2; Release Number 8

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes for Information Interchange ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri Mar 26 09:24:13 1993 MIL-STD-1840A File Catalog

File Set Directory: /cals/tapetool8/Set076

Page: 1

File Name	File Type	Record Format/ Length	Block Length/Total	Selected/ Extracted
D001	Document Declaration	D/00260	02048/000001	Extracted
D002	Document Declaration	D/00260	02048/000001	Extracted
D003	Document Declaration	D/00260	02048/000001	Extracted
D001T001	Text	D/00260	02048/000001	Extracted
D001G002	DTD	D/00260	02048/000034	Extracted
D001H003	Output Specification	D/00260	02048/000001	Extracted
D001C004	CGM	F/00080	00800/000004	Extracted
D002T001	<pre>text:</pre>			_
D002G002	DTD		02048/000001	Extracted
D002H003	Output Specification		02048/000034	Extracted
D0020004	IGES		02048/000001 02000/000016	Extracted
.D002Q005	IGES		02000/000016	Extracted
D002Q006	IGES		02000/000499	Extracted Extracted
D002Q007	IGES		02000/000023	Extracted
D003T001	Text		02048/000001	Extracted
D003G002	DTD		02048/000034	Extracted
D003H003	Output Specification		02048/000001	Extracted
D003R004	Raster		02048/000016	Extracted
D003R005	Raster		02048/000008	Extracted
		,		

Catalog Process terminated normally.

9.2 Tape Evaluation Log

Air Force CALS Test Network Tape Evaluation - Version 1.2; Release Numb Standards referenced:

ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri Mar 26 09:23:32 1993

ANSI Tape Import Log

Allocating tape drive /dev/rmt0...

/dev/rmt0 allocated.

VOL1ITDS01

CONTROLLER

Label Identifier: VOL1
Volume Identifier: ITDS01
Volume Accessibility:

Owner Identifier:

Label Standard Version: 4

HDR1D001

ITDS0100010001000100 93073 93073 000000 CONTROLLE

Label Identifier: HDR1 File Identifier: D001

File Set Identifier: ITDS01
File Section Number: 0001
File Sequence Number: 0001
Generation Number: 0001
Generation Version Number: 00

Creation Date: 93073 Expiration Date: 93073

File Accessibility: Block Count: 000000

Implementation Identifier: CONTROLLER

HDR2D0204800260

00

Label Identifier: HDR2 Recording Format: D Block Length: 02048 Record Length: 00260 Offset Length: 00

EOF1D003R005

Label Identifier: EOF1

******* Tape Mark ********* Actual Block Size Found = 2048 Bytes. Number of data blocks read = 1. ******** Tape Mark ********* <><< PART OF LOG REMOVED HERE >>>> ******* Tape Mark ********** HDR1D003R005 ITDS0100010024000100 93073 93073 000000 CONTROLLE Label Identifier: HDR1 File Identifier: D003R005 File Set Identifier: ITDS01 File Section Number: 0001 File Sequence Number: 0024 Generation Number: 0001 Generation Version Number: 00 Creation Date: 93073 Expiration Date: 93073 File Accessibility: Block Count: 000000 Implementation Identifier: CONTROLLER HDR2F0204800128 00 Label Identifier: HDR2 Recording Format: F Block Length: 02048 Record Length: 00128 Offset Length: 00 ********* Tape Mark ********** Actual Block Size Found = 2048 Bytes. Number of data blocks read = 8. ******* Tape Mark *********

ITDS0100010024000100 93073 93073 000008 CONTROLLE

File Identifier: D003R005 File Set Identifier: ITDS01 File Section Number: 0001 File Sequence Number: 0024 Generation Number: 0001

Generation Version Number: 00

Creation Date: 93073 Expiration Date: 93073 File Accessibility:

Block Count: 000008

Implementation Identifier: CONTROLLER

EOF2F0204800128

00

Label Identifier: EOF2
Recording Format: F
Block Length: 02048
Record Length: 00128
Offset Length: 00

******** Tape Mark *********

******* Tape Mark *********

######### End of Volume ITDS01 ###############

######### End Of Tape File Set ###############

Deallocating /dev/rmt0...

Tape Import Process terminated with 0 error(s), 0 warning(s), and 0 note(s).

9.3 Tape File Set Validation Log

Air Force CALS Test Network File Set Evaluation - Version 1.2; Release Standards referenced: MIL-STD-1840A (1987) - Automated Interchange of Technical Informati Fri Mar 26 09:24:14 1993 MIL-STD-1840A File Set Evaluation Log File Set: Set076 Found file: D001 Extracting Document Declaration Header Records... Evaluating Document Declaration Header Records... srcsys: John P. Kent, ITDS Chief Engineer, Northrop Corporation, B-2 Di srcdocid: CALS CGM TEST1 srcrelid: NONE chglvl: ORIGINAL dteisu: 19930126 dstsys: Jeff Fisher, Integration Manager, USAF CALS Test Bed, HQ AFMC (dstdocid: STPRO25.6 dstrelid: NONE dtetrn: 19930314 dlvacc: NONE filcnt: T1, H1, G1, C6

tilent: T1, H1, G1, C6 ttlels: UNCLASSIFIED doccls: UNCLASSIFIED doctyp: JOB GUIDE docttl: graphics test

Found file: D001T001

Extracting Text Header Records...
Evaluating Text Header Records...

srcdocid: CALS_CGM_TEST1 dstdocid: STPRO25.6

txtfilid: W

doccls: UNCLASSIFIED

notes: NONE

Saving Text Header File: D001T001_HDR Saving Text Data File: D001T001_TXT

<><< PART OF LOG REMOVED HERE >>>>

Evaluating numbering scheme...

No errors were encountered during numbering scheme evaluation.

Numbering scheme evaluation complete.

Checking file count...

No errors were encountered during file count verification.

File Count verification complete.

No errors were encountered in Document D001.

Found file: D002

Extracting Document Declaration Header Records... Evaluating Document Declaration Header Records...

srcsys: John P. Kent, ITDS Chief Engineer, Northrop Corporation, B-2 Di

srcdocid: CALS IGES TEST1

srcrelid: NONE chglvl: ORIGINAL dteisu: 19930126

dstsys: Jeff Fisher, Integration Manager, USAF CALS Test Bed, HQ AFMC (

dstdocid: STPRO25.8

dstrelid: NONE dtetrn: 19930314 dlvacc: NONE

filcnt: T1, H1, G1, Q4 ttlcls: UNCLASSIFIED doccls: UNCLASSIFIED doctyp: JOB GUIDE

docttl: graphics test

Found file: D002T001

Extracting Text Header Records...
Evaluating Text Header Records...

srcdocid: CALS IGES TEST1

dstdocid: STPRO25.8

txtfilid: W

doccls: UNCLASSIFIED

notes: NONE

Saving Text Header File: D002T001_HDR Saving Text Data File: D002T001 TXT

<<<< PART OF LOG REMOVED HERE >>>>

Evaluating numbering scheme...

No errors were encountered during numbering scheme evaluation. Numbering scheme evaluation complete.

Checking file count...

No errors were encountered during file count verification. File Count verification complete.

No errors were encountered in Document D002.

Found file: D003

Extracting Document Declaration Header Records... Evaluating Document Declaration Header Records...

srcsys: John P. Kent, ITDS Chief Engineer, Northrop Corporation, B-2 Di

srcdocid: CALS RAS TEST1

srcrelid: NONE chglvl: ORIGINAL dteisu: 19930126

dstsys: Jeff Fisher, Integration Manager, USAF CALS Test Bed, HQ AFMC (

dstdocid: STPRO25.10

dstrelid: NONE dtetrn: 19930314 dlvacc: NONE

filcnt: T1, H1, G1, R2 ttlcls: UNCLASSIFIED doccls: UNCLASSIFIED doctyp: JOB GUIDE docttl: graphics test

Found file: D003T001

Extracting Text Header Records...
Evaluating Text Header Records...

<><< PART OF LOG REMOVED HERE >>>>

Evaluating numbering scheme ...

No errors were encountered during numbering scheme evaluation. Numbering scheme evaluation complete.

Checking file count...

No errors were encountered during file count verification. File Count verification complete.

No errors were encountered in Document D003. No errors were encountered in this File Set.

MIL-STD-1840A File Set Evaluation Complete.

10. Appendix B - Detailed Raster Analysis

10.1 File D001R004

10.1.1 Output g42tiff/IslandPaint

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10.1.2 Output IGESView

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TILE OSCILLATOR. VOLTAGE CONTROLLED-COHO-ASA13					DATE	16	NOV	70 REV	SMEET 30F		
100	PART OR DRAWING OR IDENTIFICATION NO. SPECIFICATION NO.		! : .	NOMENCLATURE		PL.	add .	EFFECT		TO ZONE	
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2	10181752-261	10181752	RESISTO	R	1			: ;			
3	10181752-357	10181752	RESISTO		,	!		i l		!	
4	10181751-147	10181751	RESISTO		2	1	i			1	
5	10180306-239	10180306	RESISTO		2	1					
6	10181751-133	10181751	RESISTO			1		' i			
7		10181751	RESISTO	•	1	ı	1	1		1 :	
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8,	10180328-418	10180328	RESISTO	R	1	1	•	,		1 1	
9	10181752-283	10181752	RESISTO	R	1	i	1				
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11	10181752-306	10181752	RESISTO	R ·	1 3		ı				
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13	10181752-289	10181752	25555		1 .	ĺ		į .		1 :	
14			RESISTO		1	1		i			
1	10181752-271	10181752	RESISTO		1	1					
15	10181752-310	10181752	RESISTO		1	t	!	1		1. 1	
16	10181751-55	10181751	RESISTO		1	l	•	1 . 1		1	1
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1	10181751-2	10181751	RESISTO	R :		ļ		1		!	
	10181751-3	. 10181751	RESISTO		1			1		1.	
J	10181751-4	10181751	RESISTO		1	1	:	1		1 1	
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11. Appendix C - Detailed CGM Analysis

11.1 File D001C004

11.1.1 Parser Log MetaCheck

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer Copyright 1988-91 CGM Technology Software Execution Date: 03/26/93 Time: 09:05:50 Metafile Examined : i:\9326\c104.cgm Pictures Examined : All Elements Examined : All Bytes Examined : All Tracing not selected. ======== CGM Conformance Violation Report ========== No Errors Detected ====== CALS CGM Profile (MIL-D-28003) Report ========= No profile discrepancies detected. ========== Conformance Summary Report ============== MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer Copyright 1988-91 CGM Technology Software Execution Date: 03/26/93 Time: 09:05:52 Name of CGM under test: i:\9326\c104.cgm Encoding : Binary Pictures Examined : All Elements Examined Examined : All BEGIN METAFILE string : "AFCTN-011d" METAFILE DESCRIPTION : "AFCTN-011d, 91-10-03, MIL-D-28003/BASIC-1" Picture 1 starts at octet offset 158; string contains: "All Graphical Primitive Elements"

Conformance Summary : This file conforms to the CGM specification.

This file meets the CALS CGM Profile (MIL-D-28003).

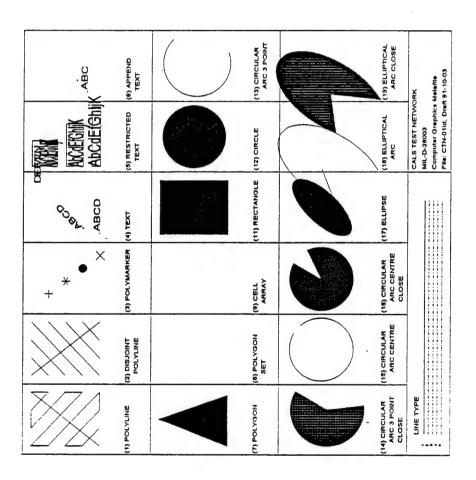
Summary of Testing Performed and Errors Found:

1 Pictures Tested 213 Elements Tested 2528 Octets Tested

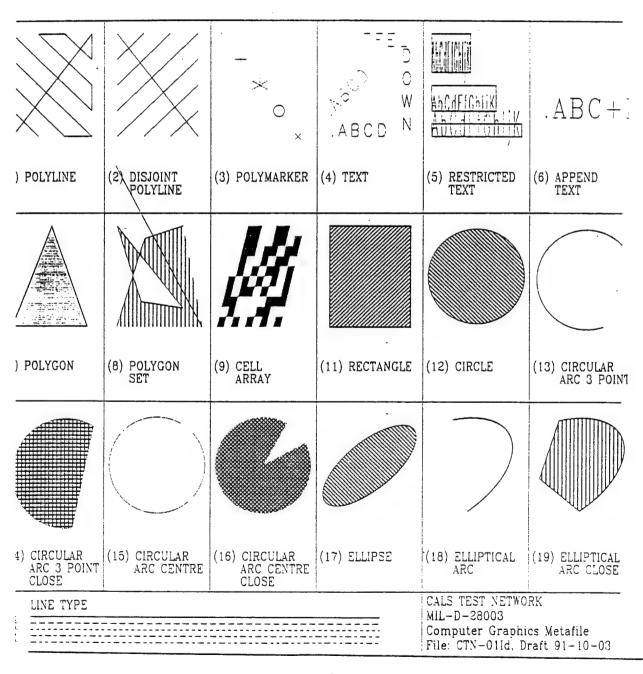
No Errors Were Detected

======== End of Conformance Report ===========

11.1.2 Output HiJaak for Windows



11.1.3 Output cgm2draw/IslandDraw



11.1.	4 Output Isla	ndDraw		AbCdEfGhljK	
			AFCE ABCD	AbCdEfGhljK AbCdEfGhljK	
i POLYLINE	(2) DISJOINT POLYLINE	(3) POLYMARKER	(4) TEXT	(5) RESTRICTED TEXT	(6) APPEND TEXT
I POLYGON	(8) POLYGON SET	(9) CELL ARRAY	(11) RECTANGLE	(12) CIRCLE	(13) CIRCULAR ARC 3 POINT
4) CIRCULAR ARC 3 POINT CLOSE	(15) CIRCULAR ARC CENTRE	(16) CIRCULAR ARC CENTRE CLOSE	(17) ELLIPSE	(18) ELLIPTICAL ARC	(19) ELLIPTICAL ARC CLOSE
LINETYPE				CALS TEST NETWORK MIL-D-28003 Computer Graphics Metafile File: CTN-01ld, Draft 91-10	

11.2 File D001C005

Primitive Elements"

11.2.1 Parser Log MetaCheck

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer Copyright 1988-91 CGM Technology Software Time: 09:06:02 Execution Date: 03/26/93 Metafile Examined : i:\9326\c105.cgm Pictures Examined : All Elements Examined : All Bytes Examined : All Tracing not selected. ======= CGM Conformance Violation Report ========= No Errors Detected ======= CALS CGM Profile (MIL-D-28003) Report ========= No profile discrepancies detected. ========= Conformance Summary Report ============ MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer Copyright 1988-91 CGM Technology Software Execution Date: 03/26/93 Time: 09:06:05 Name of CGM under test: i:\9326\c105.cgm Encoding : Binary Pictures Examined : All Elements Examined : All Bytes Examined : All BEGIN METAFILE string : "AFCTN-01Rd" METAFILE DESCRIPTION : "AFCTN-01Rd, 91-10-03, MIL-D-28003/BASIC-1"

Picture 1 starts at octet offset 162; string contains: "All Graphical

Conformance Summary : This file conforms to the CGM specification.

This file meets the CALS CGM Profile (MIL-D-28003).

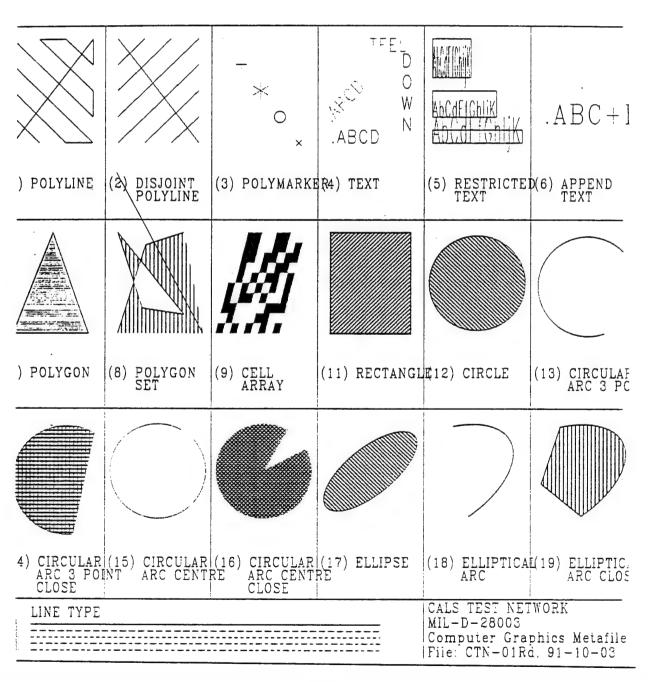
Summary of Testing Performed and Errors Found:

1 Pictures Tested 213 Elements Tested 3252 Octets Tested

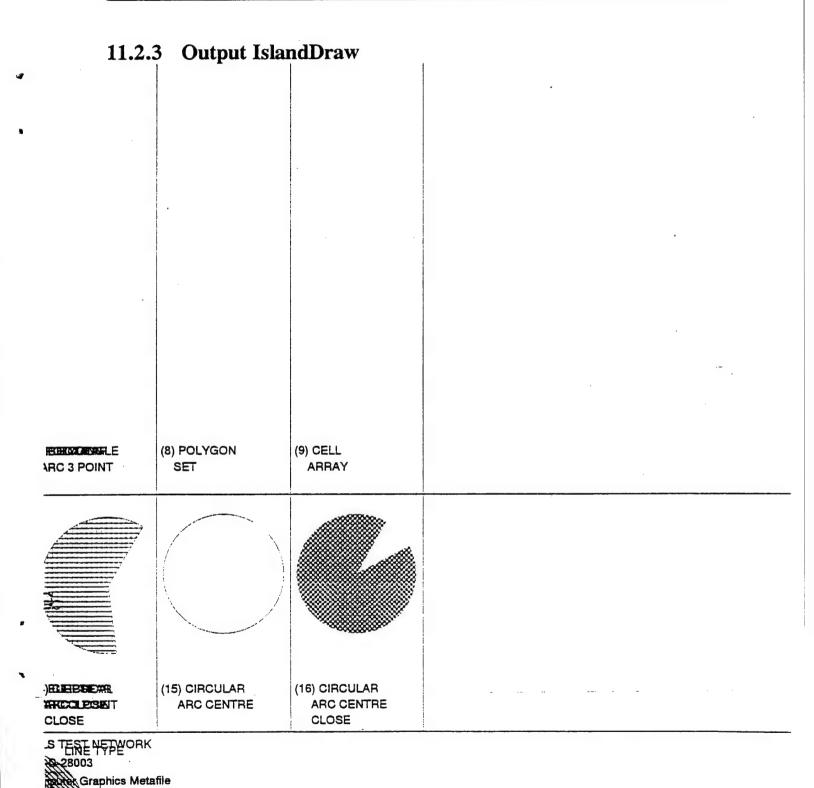
No Errors Were Detected |

======== End of Conformance Report ===========

11.2.2 Output cgm2draw/IslandDraw



318d 91-10-03 101110K (2)HDISYDENE



(3) POLYMARKER

11.3 File D001C009

11.3.1 Parser Log MetaCheck

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer Copyright 1988-91 CGM Technology Software Execution Date: 03/26/93 Time: 09:06:15 Metafile Examined : i:\9326\c109.cgm Pictures Examined : All Elements Examined : All Bytes Examined : All Tracing not selected. ======= CGM Conformance Violation Report ========== No Errors Detected ====== CALS CGM Profile (MIL-D-28003) Report ======== No profile discrepancies detected. ========== Conformance Summary Report ============= MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer Copyright 1988-91 CGM Technology Software Execution Date: 03/26/93 Time: 09:06:17 Name of CGM under test: i:\9326\c109.cgm Encoding : Binary Pictures Examined : All Elements Examined Examined : All BEGIN METAFILE string : "text.cgm" METAFILE DESCRIPTION : "NORTHROP B2 ITDS GEF, MIL-D-28003/BASIC-1" Picture 1 starts at octet offset 178; string contains: "Picture 1"

Conformance Summary : This file conforms to the CGM specification.

This file meets the CALS CGM Profile (MIL-D-28003).

Summary of Testing Performed and Errors Found:

- 1 Pictures Tested
- 67 Elements Tested
- · 896 Octets Tested

No Errors Were Detected |

======= End of Conformance Report =========

11.3.2 Output cgm2draw/IslandDraw

CENTER TEXT

RIGHT TEXT

ABCD
EFG
HIJK
LMOP
QRST
UVW
XYZ

TE
X

TEXT .12

BOLD .15

SPACING 2

EXPANSION FACTOR 1.5
______TEXT COLOR RED

11.3.3 Output IslandDraw

RIGHT TEXT

ABCD

EFG

HIJK

LMOP

QRST

UVW

XYZ

DOWN TEXTTEXT

TEXT .12

BOLD .15

SPACING 2

EXPANSION FACTOR 1.5

TEXT COLOR RED